

**Notice of Allowability**

Application No.

10/633,067

Applicant(s)

REDING, GARY T.

Examiner

Matthew J. Kohner

Art Unit

3653

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to claims of 8/1/03.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 8/1/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## **DETAILED ACTION**

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

Independent claims 1, 5 and 9 define over the prior art of record and are therefore allowable. Specifically, independent claim 1 requires an endless belt conveyor subassembly having longitudinally upward tilt and transversely downward tilt, a feed hopper, a first food-stuff seed discharge ramp positioned adjacent the endless belt conveyor most elevated end, a second food-stuff seed discharge ramp positioned adjacent the endless belt conveyor least elevated longitudinal edge, a drive for imparting longitudinal motion to belt, and an orbital drive mechanism superimposing orbital motion upon the longitudinal motion of the endless belt conveyor.

The prior art discloses inclined belt conveyors for sorting food-stuff such as spherically shaped foods (see e.g. Japanese Patent No. 40-5200363 to Ishino; US Patent No. 1,292,820 to Lindsley or 1,114,935 to Sutton et al.). Further, the prior art does disclose vibrating the inclined belts (see e.g. Sutton). However, the prior art does not disclose superimposing orbital motion upon the longitudinal motion of the endless belt conveyor.

Further, it is known in the art to superimpose orbital motion (i.e. gyratory motion) on separators such as sifters (see e.g. US Patent No. 6,070,736 to Ballman et al.; 4,107,035 to Foresman; 2,305,344 to Gary). However, the prior art does not disclose imparting the orbital motion to belt conveyors.

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Similarly to claim 1, independent claims 5 and 9 disclose a sorting apparatus and method, respectively, which also require inclined belt conveyors upon which orbital motion is superimposed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Allowable Subject Matter*

Claims 1-14 are allowed.

*Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Kohner whose telephone number is 571-272-6939. The examiner can normally be reached on Mon-Fri 9-5:30.

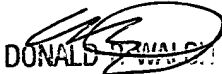
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Walsh can be reached on 571-272-6944. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew J. Kohner  
Examiner  
Art Unit 3653

mjk

  
DONALD J. ZIMAL  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600